



## Computer Consultants Corporation

### Implementing Web Applications Using Visual Studio

Private

Length of course: 2 class days (12 hours)

Objective(s): Students will learn to develop ASP.NET web applications in a Visual Studio 2005 environment.

Prerequisites: Knowledge of a programming language such as C#.

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#### **Building Solutions Using Visual Studio IDE**

- Visual Studio 2005 Application Development Overview
- Creating a New Project
- Using Visual Studio 2005
- Building and Debugging a Solution

#### **Microsoft .NET Framework 2.0 Architecture**

- The .NET Framework Runtime Environment
- Using the .NET Framework Classes and Namespaces

#### **Creating a Web Application**

- Introduction to ASP.NET
- ASP.NET Directives
- Event Handling
- Separating User Interface from Business Logic

#### **Application and Page Frameworks**

- Web Servers in ASP.NET 2.0
- Page Structure
- Page Events
- Organization and Compilation of ASP.NET 2.0 files

#### **Adding and Configuring Server Controls**

- HTML Controls and Web Server Controls
- Types of Web Server Controls
- Working with Web Server Controls
- The ASP.NET 2.0 Page Postback Model

#### **Creating Common Layouts Using Master Pages**

- What are Master Pages?
- What are Content Pages?
- Nested Master Pages

#### **Site Navigation**

- Roundtrip and Postback
- ASP.NET intrinsic objects
- ASP.NET application
- State Management
- Navigation Between Pages

#### **Error Handling**

- Default Behavior : throw exception, show error message and then terminate
- Exception Classes
- Custom Exceptions: deriving from the ApplicationException Class
- Try Catch Finally
- Page Error Event Handler
- Application Error Event Handler

#### **Configuring a Web Application**

- Configuring the Web Application
- Configuring Security
- Using Caching
- Handling Session State
- Installing and Configuring Server Services

#### **Deploying a Web Application**

- Deployment Tools
- Deploying a Web Application
- Customizing Web Setup Projects
- Shared Assemblies
- Creating Installation Components
- Scalable and Reliable Deployment
- Methods of Deployment